

Name Key

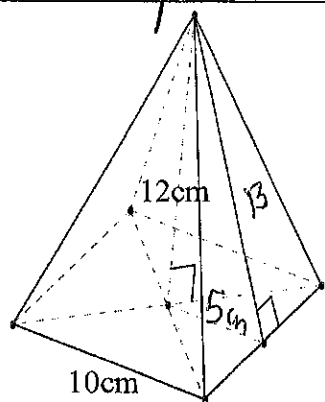
Date _____

Cones and Pyramids-Review

$$LA = \frac{1}{2} p l$$

$$SA = LA + B$$

$$V = \frac{1}{3} Bh$$



$$1. l = 13 \text{ cm}$$

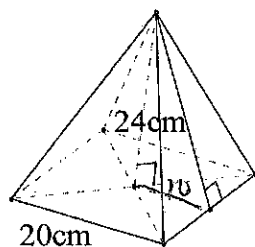
$$p = 40 \text{ cm}$$

$$B = 100 \text{ cm}^2$$

$$LA = 260 \text{ cm}^2 \frac{1}{2} 40 \cdot 13$$

$$SA = 360 \text{ cm}^2$$

$$V = 400 \text{ cm}^3 \frac{1}{3} 100 \cdot 12$$



$$3. l = 26 \text{ cm}$$

$$p = 80 \text{ cm}^2$$

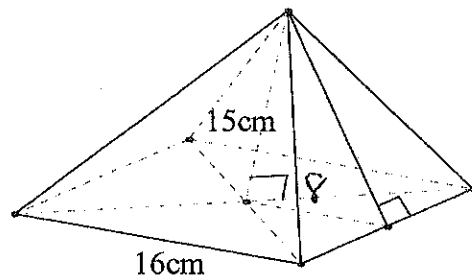
$$B = 400 \text{ cm}^2$$

$$LA = 1040 \text{ cm}^2 \frac{1}{2} 80 \cdot 26$$

$$SA = 1440 \text{ cm}^2$$

$$V = 3200 \text{ cm}^3 \frac{1}{3} 400 \cdot 24$$

$$l^2 = 10^2 + 24^2$$



$$2. l = 17 \text{ cm}$$

$$p = 64 \text{ cm}$$

$$B = 256 \text{ cm}^2$$

$$LA = 544 \text{ cm}^2 \frac{1}{2} 64 \cdot 17$$

$$SA = 800 \text{ cm}^2$$

$$V = 1280 \text{ cm}^3 \frac{1}{3} 256 \cdot 15$$

$$l^2 = 8^2 + 15^2$$

$$l^2 = 289$$

$$l^2 = 6^2 + 8^2$$

$$l^2 = 100$$

$$4. l = 10$$

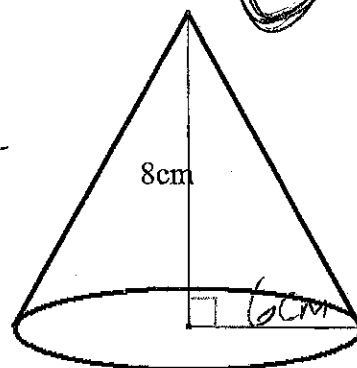
$$p = 12\pi \text{ cm } 37.7 \text{ cm}$$

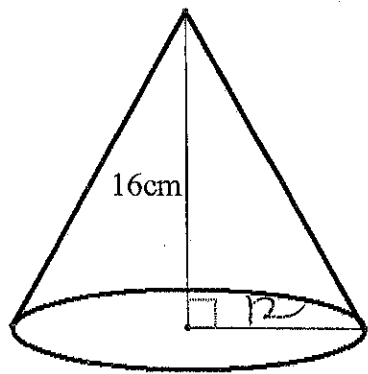
$$B = 36\pi \text{ cm}^2 113.1 \text{ cm}^2$$

$$LA = 60\pi \text{ cm}^2 \frac{1}{2} 12\pi \cdot 10 188.5 \text{ cm}^2$$

$$SA = 96\pi \text{ cm}^2 301.6 \text{ cm}^2$$

$$V = 96\pi \text{ cm}^3 301.6 \text{ cm}^3$$





$$LA = \frac{1}{2} p l$$

$$SA = LA + B$$

$$V = \frac{1}{3} Bh$$

$$l^2 = 12^2 + 16^2$$

$$l^2 = 400$$

$$5.l = 20$$

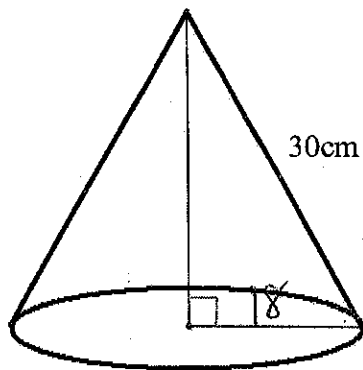
$$p = 24\pi \quad 75.4 \text{ cm}$$

$$B = 144\pi \quad 452.4 \text{ cm}^2$$

$$LA = 240\pi \quad \frac{1}{2} 24\pi \cdot 20 \quad 754.0 \text{ cm}^2$$

$$SA = 384\pi \quad 1206.4 \text{ cm}^2$$

$$V = 960\pi \quad \frac{1}{3} 144\pi \cdot 16 \quad 3015.9 \text{ cm}^3$$



$$7.l = 30 \text{ cm}$$

$$*h = 24 \text{ cm}$$

$$l^2 = r^2 + h^2$$

$$30^2 = 18^2 + h^2$$

$$576 = h^2$$

$$p = 36\pi \quad 113.1 \text{ cm}$$

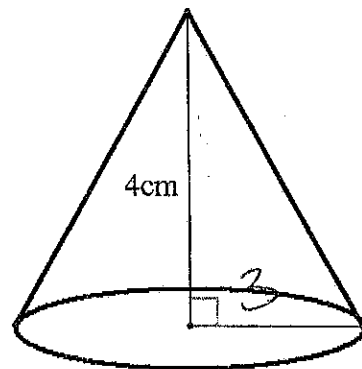
$$B = 324\pi \quad 1017.9 \text{ cm}^2$$

$$LA = 540\pi \quad \frac{1}{2} 36\pi \cdot 30 \quad 1696.5 \text{ cm}^2$$

$$SA = 864\pi \quad 2714.3 \text{ cm}^2$$

$$V = 2592\pi \quad \frac{1}{3} 324\pi \cdot 24$$

$$8143.0 \text{ cm}^3$$



$$l^2 = 3^2 + 4^2$$

$$6.l = 5$$

$$p = 6\pi \quad 18.8 \text{ cm}$$

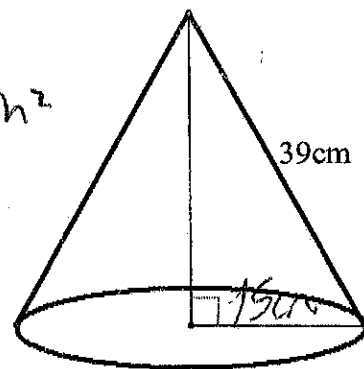
$$B = 9\pi \quad 28.3 \text{ cm}^2$$

$$LA = 15\pi \quad \frac{1}{2} 6\pi \cdot 5 \quad 47.1 \text{ cm}^2$$

$$SA = 24\pi \quad 75.4 \text{ cm}^2$$

$$V = 12\pi \quad \frac{1}{3} 9\pi \cdot 4 \quad 37.7 \text{ cm}^3$$

$$39^2 = 15^2 + h^2$$



$$8.l = 39$$

$$*h = 36$$

$$p = 30\pi \quad 94.2 \text{ cm}$$

$$B = 225\pi \quad 706.9 \text{ cm}^2$$

$$LA = 585\pi \quad \frac{1}{2} 30\pi \cdot 39 \quad 1837.8 \text{ cm}^2$$

$$SA = 810\pi \quad 2544.7 \text{ cm}^2$$

$$V = 2700\pi \quad \frac{1}{3} 225 \cdot 36$$

$$8482.3 \text{ cm}^3$$